

CURRENT DETECTING DEVICE

Publication number: JP2001165963

Publication date: 2001-06-22

Inventor: OTSUKA KOJI

Applicant: SANKEN ELECTRIC CO LTD

Classification:

- International: G01R15/20; H01L43/06; G01R15/14; H01L43/06;
(IPC1-7): G01R15/20; H01L43/06

- European: H01L43/06B

Application number: JP19990350063 19991209

Priority number(s): JP19990350063 19991209

Also published as:



EP1107328 (A2)

US6462531 (B1)

EP1107328 (A3)

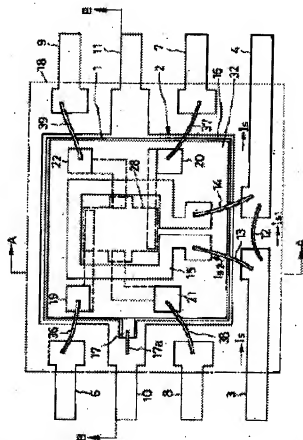
EP1107328 (B1)

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Abstract of JP2001165963

PROBLEM TO BE SOLVED: To solve such problem that detection of a large current with high accuracy using a Hall element was difficult.

SOLUTION: A conductor layer 15 as a current passage is placed on an insulating film 32 of the surface of a semiconductor base constituting a Hall element 1. This conductor layer 15 is placed, so as to surround a main operation area of the Hall element 1. The Hall element 1 and terminals 3, 4 of first and second current passages are molded with a common resin-sealing substance 18 as a unit. A wire 12 is connected as a current passage for a first resistor R1 between the terminals 3, 4 for the first and second current passages, and also the conductor layer 15 by wires 13, 14 for forming the second current passage.



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EP1107328

Family list**6 family members for: JP2001165963**

Derived from 4 applications

Back to JP2001165

- 1 Current detector having a hall-effect device**
Inventor: **Applicant:**
EC: H01L43/06B **IPC:** G01R15/20; H01L43/06; G01R15/14 (+1)
Publication info: DE60027257D D1 - 2006-05-24
- 2 Current detector having a hall-effect device**
Inventor: OHTSUKA KOJI (JP) **Applicant:** SANKEN ELECTRIC CO LTD (JP)
EC: H01L43/06B **IPC:** G01R15/20; H01L43/06; G01R15/14 (+3)
Publication info: EP1107328 A2 - 2001-06-13
EP1107328 A3 - 2004-10-13
EP1107328 B1 - 2006-04-12
- 3 CURRENT DETECTING DEVICE**
Inventor: OTSUKA KOJI **Applicant:** SANKEN ELECTRIC CO LTD
EC: H01L43/06B **IPC:** G01R15/20; H01L43/06; G01R15/14 (+3)
Publication info: JP2001165963 A - 2001-06-22
- 4 Current detector having a hall-effect device**
Inventor: OHTSUKA KOJI (JP) **Applicant:** SANKEN ELECTRIC CO LTD (US)
EC: H01L43/06B **IPC:** G01R15/20; H01L43/06; G01R15/14 (+2)
Publication info: US6462531 B1 - 2002-10-08

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CURRENT DETECTOR WITH HALL ELEMENT

Publication number: JP2001174486

Publication date: 2001-06-29

Inventor: OTSUKA KOJI

Applicant: SANKEN ELECTRIC CO LTD

Classification:

- International: H01L43/04; G01R15/20; H01L43/06; H01L43/00;
G01R15/14; H01L43/06; (IPC1-7): G01R15/20;
H01L43/04

- European: H01L43/06B

Application number: JP19990361178 19991220

Priority number(s): JP19990361178 19991220

Also published as:



EP1111693 (A2)

US6683448 (B1)

EP1111693 (A3)

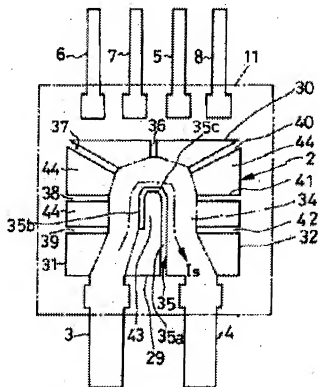
EP1111693 (B1)

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Abstract of JP2001174486

PROBLEM TO BE SOLVED: To easily detect a large current with the use of a Hall element.

SOLUTION: A metallic supporting plate 2 for supporting the Hall element is set. Grooves 35-42 are formed on the supporting plate 2 and a current path 34 is set. A primary operating region of the Hall element is arranged inside the U-shaped current path 34.



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EP 1111693

